

IN THE CLAIMS

Please amend claims 2, 6 thru 9, 21 thru 39, 41 thru 44 and 47 thru 70, as follows:

Claim 1. (Canceled)

1 2. (Currently Amended) A method of hot-plugging a video display unit to a computer,
2 comprising the steps of:

3 providing the computer with a processing unit, a memory unit connected to said processing
4 unit, a digital data communication (DDC) interface connected to said processing unit, and a video
5 card connected to said processing unit and coupled to said video display unit;

6 while power is being supplied to [[a]] said processing unit, detecting whether [[a]] said video
7 display unit is newly coupled to ~~a connecting unit of~~ said processing unit, said video display unit
8 conveying varying visual information to a user, and said processing unit processing data including
9 the varying visual information;

10 when said video display unit is detected as being newly coupled to said ~~connecting~~
11 processing unit while power is being supplied to said processing unit, reading operating said DDC
12 interface and said processing unit to read first data corresponding to said video display unit from said
13 video display unit;

14 determining whether said first data corresponds to second data stored in [[a]] said memory
15 unit; and

16 when said first data does not correspond to said second data stored in said memory unit,

17 storing said first data in said memory unit, [[and]] determining a resolution corresponding to said
18 video display unit, and transmitting said resolution to [[a]] said video card coupled to said video
19 display unit; [[and]]

20 said detecting ~~further~~ step comprising operating said processing unit to carry out a polling
21 operation periodically checking with respect to said DDC interface so as to determine whether said
22 video display unit is newly coupled to said connecting processing unit.

Claims 3 through 5. (Canceled)

1 6. (Currently Amended) A method of hot-plugging a video display unit to a computer,
2 comprising:

3 providing the computer with a processing unit, a memory unit connected to said processing
4 unit, a digital data communication (DDC) interface connected to said processing unit, and a video
5 card connected to said processing unit and coupled to said video display unit;

6 while power is being supplied to [[a]] said processing unit, detecting whether [[a]] said video
7 display unit is newly coupled to ~~a connecting unit of~~ said processing unit, said video display unit
8 conveying varying visual information to a user, and said processing unit processing data including
9 the varying visual information;

10 when said video display unit is detected as being newly coupled to said ~~connecting~~
11 processing unit while power is being supplied to said processing unit, reading operating said DDC
12 interface and said processing unit to read first data corresponding to said video display unit from said

13 video display unit;

14 determining whether said first data corresponds to second data stored in [[a]] said memory
15 unit; and

16 when said first data does not correspond to said second data stored in said memory unit,
17 storing said first data in said memory unit, [[and]] determining a resolution corresponding to said
18 video display unit, and transmitting said resolution to [[a]] said video card coupled to said video
19 display unit; [[and]]

20 said detecting ~~further~~ step comprising operating said processing unit to carry out a polling
21 operation periodically checking with respect to said DDC interface so as to determine whether said
22 video display unit is newly coupled to said ~~connecting~~ processing unit, said detecting step being
23 performed while power is being newly supplied to said processing unit.

1 7. (Currently Amended) A method of hot-plugging a video display unit to a computer,
2 comprising:

3 providing the computer with a processing unit, a memory unit connected to said processing
4 unit, a digital data communication (DDC) interface connected to said processing unit, and a video
5 card connected to said processing unit and coupled to said video display unit;

6 while power is being supplied to [[a]] said processing unit, detecting whether [[a]] said video
7 display unit is newly coupled to ~~a connecting unit of~~ said processing unit, said video display unit
8 conveying varying visual information to a user, and said processing unit processing data including
9 the varying visual information;

when said video display unit is detected as being newly coupled to said ~~connecting~~
processing unit while power is being supplied to said processing unit, ~~reading~~ operating said DDC
interface and said processing unit to read first data corresponding to said video display unit from said
video display unit;

determining whether said first data corresponds to second data stored in [[a]] said memory
unit; and

when said first data does not correspond to said second data stored in said memory unit,
storing said first data in said memory unit, [[and]] determining a resolution corresponding to said
video display unit, and transmitting said resolution to [[a]] said video card coupled to said video
display unit; [[and]]

said detecting ~~further~~ step comprising operating said processing unit to carry out a polling
operation periodically checking with respect to said DDC interface so as to determine whether said
video display unit is newly coupled to said ~~connecting~~ processing unit, said detecting step being
performed after power has been newly supplied to said processing unit.

8. (Currently Amended) A method of hot-plugging a video display unit to a computer,
comprising:

providing the computer with a processing unit, a memory unit connected to said processing
unit, a digital data communication (DDC) interface connected to said processing unit, and a video
card connected to said processing unit and coupled to said video display unit;

while power is being supplied to [[a]] said processing unit, detecting whether [[a]] said video

display unit is newly coupled to a ~~connecting unit~~ of said processing unit, said video display unit conveying varying visual information to a user, and said processing unit processing data including the varying visual information;

when said video display unit is detected as being newly coupled to said ~~connecting~~ processing unit while power is being supplied to said processing unit, ~~reading~~ operating said DDC interface and said processing unit to read first data corresponding to said video display unit from said video display unit;

determining whether said first data corresponds to second data stored in [[a]] said memory unit;

when said first data does not correspond to said second data stored in said memory unit, storing said first data in said memory unit, [[and]] determining a resolution corresponding to said video display unit, and transmitting said resolution to [[a]] said video card coupled to said video display unit; [[and]]

said detecting ~~further~~ step comprising a sensing of an interrupt signal ~~occurring~~ generated by said DDC interface when said video display unit is newly coupled to said ~~connecting~~ processing unit, said detecting step being performed while power is being newly supplied to said processing unit.

9. (Currently Amended) A method of hot-plugging a video display unit to a computer, comprising:
providing the computer with a processing unit, a memory unit connected to said processing

4 unit, a digital data communication (DDC) interface connected to said processing unit, and a video
5 card connected to said processing unit and coupled to said video display unit;

6 while power is being supplied to ~~[[a]]~~ said processing unit, detecting whether ~~[[a]]~~ said video
7 display unit is newly coupled to ~~a connecting unit of~~ said processing unit, said video display unit
8 conveying varying visual information to a user, and said processing unit processing data including
9 the varying visual information;

10 when said video display unit is detected as being newly coupled to said ~~connecting~~
11 processing unit while power is being supplied to said processing unit, reading operating said DDC
12 interface and said processing unit to read first data corresponding to said video display unit from said
13 video display unit;

14 determining whether said first data corresponds to second data stored in ~~[[a]]~~ said memory
15 unit;

16 when said first data does not correspond to said second data stored in said memory unit,
17 storing said first data in said memory unit, ~~[[and]]~~ determining a resolution corresponding to said
18 video display unit, and transmitting said resolution to ~~[[a]]~~ said video card coupled to said video
19 display unit; and

20 said detecting ~~further~~ step comprising a sensing of an interrupt signal ~~occurring~~ generated
21 by said DDC interface when said video display unit is newly coupled to said ~~connecting~~ processing
22 unit, said detecting step being performed after power has been newly supplied to said processing
23 unit.

Claims 10 through 20. (Canceled)

1 21. (Currently Amended) A method of hot-plugging a video display unit to a computer,
2 comprising:

3 providing the computer with a processing unit, a memory unit connected to said processing
4 unit, a digital data communication (DDC) interface connected to said processing unit, and a video
5 card connected to said processing unit and coupled to said video display unit;

6 connecting [[a]] said video display unit to [[a]] said computer system after said computer
7 ~~system~~ has been powered on and initialized, said video display unit conveying varying visual
8 information to a user;

9 detecting whether said video display unit is connected to said computer ~~system~~;

10 when said video display unit is detected as being connected to said computer ~~system~~, ~~reading~~
11 operating said DDC interface and said processing unit to read first data corresponding to said video
12 display unit;

13 determining whether said first data corresponds to second data stored in [[a]] said memory
14 unit; and

15 when said first data does not correspond to said second data stored in said memory unit,
16 storing said first data in said memory unit, [[and]] identifying a resolution corresponding to said
17 video display unit, and transmitting said resolution to [[a]] said video card coupled to said video
18 display unit.

1 22. (Currently Amended) The method of claim 21, said connecting, detecting, ~~reading~~
2 operating, determining, storing, identifying, and transmitting steps being performed without
3 rebooting said computer ~~system~~.

1 23. (Currently Amended) The method of claim 22, said detecting ~~further step~~ comprising
2 operating said processing unit to carry out a polling operation periodically ~~checking~~ with respect to
3 said DDC interface so as to sense when said video display unit is connected to said computer ~~system~~.

1 24. (Currently Amended) The method of claim 21, said detecting ~~further step~~ comprising
2 operating said processing unit to carry out a polling operation periodically ~~checking~~ with respect to
3 said DDC interface so as to sense when said video display unit is connected to said computer ~~system~~.

1 25. (Currently Amended) The method of claim 21, said detecting ~~further step~~ comprising
2 a sensing of an interrupt signal ~~occurring~~ generated by said DDC interface when said video display
3 unit is connected to said computer ~~system~~.

1 26. (Currently Amended) A method of hot-plugging a video display unit to a computer,
2 comprising:
3 providing the computer with a processing unit, a memory unit connected to said processing
4 unit, a digital data communication (DDC) interface connected to said processing unit, and a video
5 card connected to said processing unit and coupled to said video display unit;

6 connecting [[a]] said video display unit to [[a]] said computer ~~system~~ after said computer
7 ~~system~~ has been initialized and while said computer ~~system~~ is being operated by a user, said video
8 display unit conveying varying visual information to [[a]] the user;

9 detecting whether said video display unit is connected to said computer ~~system~~;

10 when said video display unit is detected as being connected to said computer ~~system~~, reading
11 operating said DDC interface and said processing unit to read first data corresponding to said video
12 display unit from said video display unit; and

13 transmitting resolution data to [[a]] said video card coupled to said video display unit, said
14 resolution data corresponding to said first data.

1 27. (Currently Amended) The method of claim 26, said connecting, detecting, reading
2 operating, and transmitting steps being performed without rebooting said computer ~~system~~.

1 28. (Currently Amended) The method of claim 27, said detecting further step comprising
2 operating said processing unit to carry out a polling operation periodically checking with respect to
3 said DDC interface so as to sense when said video display unit is connected to said computer ~~system~~.

1 29. (Currently Amended) The method of claim 26, said detecting further step comprising
2 operating said processing unit to carry out a polling operation periodically checking with respect to
3 said DDC interface so as to sense when said video display unit is connected to said computer ~~system~~.

1 30. (Currently Amended) The method of claim 26, said detecting ~~further~~ step comprising
2 a sensing of an interrupt signal ~~occurring~~ generated by said DDC interface when said video display
3 unit is connected to said computer ~~system~~.

1 31. (Currently Amended) A method of hot-plugging a video display unit to a computer,
2 comprising:

3 providing the computer with a processing unit, a memory unit connected to said processing
4 unit, a digital data communication (DDC) interface connected to said processing unit, and a video
5 card connected to said processing unit and coupled to said video display unit;

6 powering on ~~[[a]]~~ said computer ~~system~~;

7 connecting ~~[[a]]~~ said video display unit to ~~[[a]]~~ said computer ~~system~~ after said powering on
8 of said computer ~~system~~, said video display unit conveying varying visual information to a user;

9 detecting whether said video display unit is connected to said computer ~~system~~;

10 when said video display unit is detected as being connected to said computer ~~system~~, ~~reading~~
11 operating said DDC interface and said processing unit to read first data corresponding to said video
12 display unit from said video display unit; and

13 transmitting resolution data to ~~[[a]]~~ said video card coupled to said video display unit, said
14 resolution data corresponding to said first data.

1 32. (Currently Amended) The method of claim 31, said connecting, detecting, ~~reading~~
2 operating, and transmitting steps being performed without restarting said computer ~~system~~.

1 33. (Currently Amended) The method of claim 32, said detecting ~~further~~ step comprising
2 operating said processing unit to carry out a polling operation periodically ~~checking~~ with respect to
3 said DDC interface to sense when said video display unit is connected to said computer system.

1 34. (Currently Amended) The method of claim 31, said detecting ~~further~~ step comprising
2 operating said processing unit to carry out a polling operation periodically ~~checking~~ with respect to
3 said DDC interface to sense when said video display unit is connected to said computer system.

1 35. (Currently Amended) The method of claim 31, said detecting ~~further~~ step comprising
2 a sensing of an interrupt signal ~~occurring~~ generated by said DDC interface when said video display
3 unit is connected to said computer system.

1 36. (Currently Amended) An apparatus, comprising:
2 a computer system for processing data; and
3 a video display unit for conveying varying visual information to a user, said video display
4 unit being connected to said computer system after said computer system has been powered on and
5 initialized;
6 said computer system including a processing unit ~~being~~ installed in said computer system,
7 a digital data communication (DDC) interface connected to said processing unit, and a video card
8 connected to said processing unit and coupled to said video display unit;

9 said processing unit processing the data including the visual information, said processing unit
10 detecting whether said video display unit is connected to said computer system, said processing unit
11 ~~reading~~ operating said DDC interface to read first data corresponding to said video display unit when
12 said video display unit is detected, said processing unit determining whether said first data
13 corresponds to second data stored ~~[[at]]~~ in said computer system, said processing unit storing said
14 first data, ~~[[and]]~~ determining resolution data corresponding to said video display unit, and
15 transmitting said resolution data when said first data does not correspond to said second data.

1 37. (Currently Amended) The apparatus of claim 36, ~~further comprising a~~ said video card
2 being disposed between said processing unit and said video display unit, said video card receiving
3 said resolution data transmitted from said processing unit.

1 38. (Currently Amended) The apparatus of claim 36, further comprising:
2 a first memory installed in said video display unit, said processing unit reading said first data
3 from said first memory; and
4 a second memory installed in said computer system, said second data being stored in said
5 second memory; ~~[[and]]~~
6 said processing unit storing said first data in said second memory when said first data does
7 not correspond to said second data.

1 39. (Currently Amended) The apparatus of claim 38, said detecting performed by said

2 processing unit ~~including~~ comprising operating said processing unit to carry out a polling operation
3 periodically ~~checking~~ with respect to said DDC interface so as to sense when said video display unit
4 is connected to said computer system.

1 40. (Previously Presented) The apparatus of claim 36, said resolution data corresponding
2 to an optimal resolution of said video display unit.

1 41. (Currently Amended) The apparatus of claim 36, wherein said video display unit is
2 ~~selected from among~~ comprises one of a cathode ray tube, a liquid crystal display, a gas-plasma
3 display, a light emitting diode display, an electro-luminescent display, and a field emission display.

1 42. (Currently Amended) The apparatus of claim 36, said detecting performed by said
2 processing unit ~~including~~ comprising operating said processing unit to carry out a polling operation
3 periodically ~~checking~~ with respect to said DDC interface so as to sense when said video display unit
4 is connected to said computer system.

1 43. (Currently Amended) An apparatus, comprising:
2 a computer system for processing data; and
3 a video display unit for conveying varying visual information to a user, said video display
4 unit being connected to said computer system after said computer system has been booted; [[and]]
5 said computer system including a processing unit being installed in said computer system,

6 a digital data communication (DDC) interface connected to said processing unit, and a video card
7 connected to said processing unit and coupled to said video display unit;

8 said processing unit processing the data including the visual information, said processing unit
9 detecting whether said video display unit is connected to said computer system, said processing unit
10 reading operating said DDC interface to read first data corresponding to said video display unit and
11 transmitting resolution data corresponding to said first data.

1 44. (Currently Amended) The apparatus of claim 43, ~~further comprising a~~ said video card
2 being disposed between said processing unit and said video display unit, said video card receiving
3 said resolution data transmitted from said processing unit.

1 45. (Previously Presented) The apparatus of claim 43, further comprising a first memory
2 installed in said video display unit, said processing unit reading said first data from said first
3 memory.

1 46. (Previously Presented) The apparatus of claim 43, said resolution data corresponding
2 to an optimal resolution of said video display unit.

1 47. (Currently Amended) The apparatus of claim 43, said processing unit performing said
2 detecting, reading operating, and transmitting without restarting said computer system.

1 48. (Currently Amended) The apparatus of claim 47, said detecting performed by said
2 processing unit ~~including~~ comprising operating said processing unit to carry out a polling operation
3 periodically ~~checking with respect to said DDC interface so as~~ to sense when said video display unit
4 is connected to said computer system.

1 49. (Currently Amended) The apparatus of claim 43, said detecting performed by said
2 processing unit ~~including~~ comprising operating said processing unit to carry out a polling operation
3 periodically ~~checking with respect to said DDC interface so as~~ to sense when said video display unit
4 is connected to said computer system.

1 50. (Currently Amended) The apparatus of claim 43, said detecting performed by said
2 processing unit including a sensing of an interrupt signal occurring generated by said DDC interface
3 when said video display unit is connected to said computer system.

1 51. (Currently Amended) The method of claim 2, said detecting whether said video
2 display unit is newly coupled to said ~~connecting processing unit corresponding to~~ comprising
3 detecting whether a hot-plugging of said video display unit occurs.

1 52. (Currently Amended) The method of claim 51, said hot-plugging of said video
2 display unit ~~corresponding to~~ comprising connecting said video display unit to said ~~connecting~~
3 processing unit after a booting process of said processing unit is completed.

1 53. (Currently Amended) The method of claim 2, said detecting being performed after
2 a booting process of said processing unit is completed.

1 54. (Currently Amended) The method of claim 2, said polling operation being performed
2 after a booting process of said processing unit is completed.

1 55. (Currently Amended) The method of claim 6, said detecting whether said video
2 display unit is newly coupled to said ~~connecting~~ processing unit ~~corresponding to~~ comprising
3 detecting whether a hot-plugging of said video display unit occurs.

1 56. (Currently Amended) The method of claim 55, said hot-plugging of said video
2 display unit ~~corresponding to~~ comprising connecting said video display unit to said ~~connecting~~
3 processing unit after a booting process of said processing unit is completed.

1 57. (Currently Amended) The method of claim 6, said detecting being performed after
2 a booting process of said processing unit is completed.

1 58. (Currently Amended) The method of claim 6, said polling operation being performed
2 after a booting process of said processing unit is completed.

1 59. (Currently Amended) The method of claim 7, said detecting whether said video
2 display unit is newly coupled to said ~~connecting~~ processing unit ~~corresponding to~~ comprising
3 detecting whether a hot-plugging of said video display unit occurs.

1 60. (Currently Amended) The method of claim 59, said hot-plugging of said video
2 display unit ~~corresponding to~~ comprising connecting said video display unit to said ~~connecting~~
3 processing unit after a booting process of said processing unit is completed.

1 61. (Currently Amended) The method of claim 7, said detecting being performed after
2 a booting process of said processing unit is completed.

1 62. (Currently Amended) The method of claim 7, said polling operation being performed
2 after a booting process of said processing unit is completed.

1 63. (Currently Amended) The method of claim 8, said detecting whether said video
2 display unit is newly coupled to said ~~connecting~~ processing unit ~~corresponding to~~ comprising
3 detecting whether a hot-plugging of said video display unit occurs.

1 64. (Currently Amended) The method of claim 63, said hot-plugging of said video
2 display unit ~~corresponding to~~ comprising connecting said video display unit to said ~~connecting~~
3 processing unit after a booting process of said processing unit is completed.

1 65. (Currently Amended) The method of claim 8, said detecting being performed after
2 a booting process of said processing unit is completed.

1 66. (Currently Amended) The method of claim 8, said sensing of said interrupt signal
2 being performed after a booting process of said processing unit is completed.

1 67. (Currently Amended) The method of claim 9, said detecting whether said video
2 display unit is newly coupled to said ~~connecting~~ processing unit ~~corresponding to~~ comprising
3 detecting whether a hot-plugging of said video display unit occurs.

1 68. (Currently Amended) The method of claim 67, said hot-plugging of said video
2 display unit ~~corresponding to~~ comprising connecting said video display unit to said ~~connecting~~
3 processing unit after a booting process of said processing unit is completed.

1 69. (Currently Amended) The method of claim 9, said detecting being performed after
2 a booting process of said processing unit is completed.

1 70. (Currently Amended) The method of claim 9, said sensing of said interrupt signal
2 being performed after a booting process of said processing unit is completed.